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NPIC/TSSG/RED-1909/69  
4 November 1969

MEMORANDUM FOR: Chief, Technical Services & Support Group

ATTENTION : [ ] PPS/TSSG

SUBJECT : RED Monthly Report on Significant Events (October 1969)

A. Significant Items of Interest for October 1969.

1. [ ] Precision Enlarger - On 13 October 1969 a second [ ] Precision Enlarger was installed in the Photographic Laboratory.
2. Twin-Stage On-Line P.I. Comparator - On 22 October 1969 the Twin-Stage On-Line P.I. Comparator was delivered and installed in TSSG/EBD.
3. Visit to [ ] - On 29 and 30 October 1969 RED personnel visited [ ] to discuss Color in terms of anticipated volumes, equipment, processes, etc.
4. High-Speed Dry Silver Processors - The three High-Speed Dry Silver Processors have performed satisfactorily for the factory acceptance tests. Two of these processors (#2 and #3) are scheduled to be shipped to Westover, SPFF, Massachusetts, for a 6- to 12-month T&E program. Processor #1 will remain as GPE at the contractors facility in support of the testing program and for checking the performance of the materials produced for the program.

It is expected that 1,000 square yards of grade #1 reproduction material will be available to initiate the program. About 1,000 yards will be available each month until February when this rate will speed up by 1,000 yards per month until the total of approximately 9,000 yards have been delivered.

5. Precise Mensuration Equipment - The breadboarded electronics and optics for the calibration device for the Precise Mensuration equipment has been demonstrated to operate as planned and proves out the concept for further development. Proposals have been received for the fabrication of a prototype device for specific testing.

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6. Visit to Naval Weapons Center - On 8 October RED personnel visited the Naval Weapons Center, China Lake, California, where human factors research on information extraction from line-scan imagery is being conducted.
7. Briefing by [ ] - On 28 October, [ ] of the [ ] briefed NPIC, IAS and SPAD personnel on the results of the "Photographic and Line-Scan Imagery Experimentation" project.
8. Review of Imagery Interpretation Research Program - On 30 and 31 October, a comprehensive technical review of the [ ] "Imagery Interpretation Research Program" was held among Center personnel, NPIC human factors consultants, and [ ] personnel.
9. Modifications to the Microdensitometer - The modifications to the Microdensitometer--made by [ ] were accepted.
10. Digitized Measuring Light Table - The Digitized Measuring Light Table is now working. The initial test results are very encouraging.
11. Model II Split-Format 1540 Light Tables - Two contracts for the fabrication of a Model II Split-Format 1540 Light Table, one with [ ] and one with [ ] were approved.
12. Dual-Viewing Light Table Contract - The first production unit (pre-production prototype) of the Dual-Viewing Light Table contract was accepted and delivered to NPIC.
13. [ ] Overrun Approval - An overrun of [ ] to complete development of an Advanced Wide-Span Stereo Rhomboids prototype was approved. [ ] is now working on the contract.
14. Modification of [ ] Chip Comparators - A contract with [ ] to modify six [ ] Chip Comparators was approved. T&M, [ ] est.
15. Evaluation of Fiber-Optics Viewer - A contract with [ ] to evaluate a Fiber-Optics Viewer was approved. T&M, [ ] est.

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- 25X1 16. Evaluation of Prototype Binocular Tube Magnifier - A prototype of the Binocular Tube Magnifier was received from [ ] for further evaluation. 25X1
- 25X1 17. High Precision Stereo Comparator Program - [ ] the optical subcontractor, has informed [ ] that the optical system will not be ready for acceptance tests until the end of December. 25X1 These tests were originally scheduled for mid-December. [ ] 25X1 [ ] technical director, spent two days at NPIC co-ordinating with PHD, AID, and APED on computer programming for the comparator. [ ] has submitted the maintenance proposal for the comparator and this has been turned over to ESD. 25X1
- 25X1 18. Ground Truth Field Survey - The Ground Truth field survey work for the IEG/PHD In-House Precise Measurement Study is 75% complete. [ ] the contractor for this task, expects to complete the field survey work early in November and submit the final report in December 1969.
19. Stereo Mensuration Tests (Task 6) - IEG/PHD has requested that RED supply contractor support to run the Stereo Mensuration Tests (Task 6) under the In-House Precise Measurement Study. Autometrics has been invited to review these requirements and submit a bid.
- 25X1 20. Automatic Stereo Scanner - The 15-week bench test of the re-designed optical system was successfully concluded on 24 October 1969 with an RED test of the optical system and delivery of [ ] test report. RED's consultant, [ ] assisted in the test and will furnish a written report shortly. 25X1

25X1 Most of the test results exceeded the design goals and only minor deficiencies were discovered. [ ] costs overran their budget by some [ ] due entirely to the previously reported escalation of the company's overhead and G&A. Direct labor hours underran the budget by approximately 5%. 25X1

A complete briefing on the project for the Executive Director, NPIC, is in preparation and will be available early in November. RED recommendations for follow-on will be included.

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21. Image Comparison Microstereoscope - The previously requested overrun funds in the amount of [ ] were approved and made available to [ ] to continue the project. [ ] is in the final stages of sub-assembly work and delivery is still scheduled for March 1970. NPIC Test & Evaluation personnel received full briefings on the project as background for preparation of their test plan. A briefing on the development is scheduled for EXRAND on 12 November 1969.
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22. [ ] Grant Program - The grant agreement in the amount of [ ] was approved and sent to [ ]
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23. Dual Gamma Mensuration Study - Results of preliminary data analysis reveal no significant difference in mensuration of small objects between dual gamma and Trenton processed imagery. The draft final report was mailed from the contractor on 27 October 1969.
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24. Feasibility Study-[ ] Negative-Positive Viewer - Experiments demonstrated that this technique is not feasible for use with high resolution films such as 3404. It is only marginal when used with other films.
25. Varityper Processing Evaluation - This evaluation indicated that P80 can achieve photographic results with the Varityper using bulk developers on-hand in the Center which compare with those obtained from specially procured more costly developer.
26. Imagery in Stripped Film Base - The latest batch of [ ] supplied stripped film base produced no residual imagery when subjected to the special photo-chemical processing.

B. Anticipated Items of Interest for November 1969.

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1. Phase II of the [ ] - On 21 November 1969 the [ ] contract is scheduled to enter Phase II after the completion of all Phase I tasks.

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25X1 C. See attachment 1 (TOP SECRET [REDACTED]) for the report of RED/RSB significant events for October 1969.

[REDACTED]  
Deputy Chief, Research & Engineering Division

**Attachment:**

25X1 1. [REDACTED]

**Distribution:**

- 1 - MSSG w/att. 1
- 2 - RED/TSSG w/o att. ✓

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